



## 特許協力条約に基づいて公開された国際出願

(51) 国際特許分類6 <b>C12N 15/11, C12Q 1/68 // G01N 33/566</b>	AI	(11) 国際公開番号 <b>WO 95/14772</b>  (43) 国際公開日 1995年6月1日 (01.06.95)
(21) 国際出願番号 PCT/JP94/01916 (22) 国際出願日 1994年11月11日(11.11.94)  (30) 優先権データ 特願平5/355504 1993年11月12日(12.11.93) JP  (71) 出願人：および (72) 発明者 松原謙一(MATSUBARA, Kenichi)[JP/JP] 〒565 大阪府吹田市山田東3-18-1-804 Osaka, (JP) 大久保公策(OKUBO, Kousaku)[JP/JP] 〒562 大阪府箕面市瀬川2-11-26 Osaka, (JP) (74) 代理人 弁理士 吉田研二, 外(YOSHIDA, Kenji et al.) 〒180 東京都武蔵野市吉祥寺本町1丁目34番12号 Tokyo, (JP)		(81) 指定国 AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ, VN, 欧州特許(AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI特許(BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO特許(KE, MW, SD, SZ).  添付公開書類 国際調査報告書 補正書
(54) Title : GENE SIGNATURE  (54) 発明の名称 ジーン・シグナチャー  (57) Abstract  A 3'-directed cDNA library which accurately reflects the abundance ratio of mRNA in a cell has been prepared from various human tissues, and sequencing of the cDNAs contained in the library has been conducted to examine the incidence of each cDNA in each tissue. As each cDNA has expression information with each tissue corresponding to the mRNA concentration, these cDNAs are usable as a probe or primer for detecting cell anomaly or discriminating cells. The cloned gene can produce proteins utilizable as a medicine or the like.		

AAGGGAACCT GCTTCTTTAC TCCAGAACTC TGTTCTTTAA AGACCAAGAT TACATTCTCA 180  
 ATTAGAAAAC TGCAATTTGG TTCCACCACA TCCTGACTAC TACCGTATAG TTTTCTCTAT 240  
 TCTTTCATTT CCCCCTCCC CATTCTTTA TTGTACATAA AGTAACTGGT ATATGTGCAC 300  
 AAA 303

配列番号 : 3165

配列の長さ : 311

配列の型 : 核酸

トポロジー : 直鎖状

クローン名 : HUMGS03736

配列 :

GATCTAGAGC CAGGCTGGTC AAGACAAGAA TTGGCTGGAA TAGGCTGCTC TTCCCCATT 60  
 CCATCATGTG CTGTCCCAC CCCTTTGGCC ACCTGGGCTG ACTGTGTCTT AATACCTCAA 120  
 GTGCAAGTAT ATAGGAGTAA GAAATNAACA ATGCCTGCCT CTTTATACTC ATGCCTACAT 180  
 TGTATGACAT CTAGTATGAA AGGGAAACAT TAAAGGAAAA CCCTTGTTTT GCTCTAAAA 240  
 CTGAGGACGG TAAACACTGA GAGTAACCTG GTGCTTGGTT TGAAGTAAAA CACAAATACT 300  
 TCCCTTTTAA A 311

配列番号 : 3166

配列の長さ : 309

配列の型 : 核酸

トポロジー : 直鎖状

クローン名 : HUMGS03737

配列 :

GATCAAGGGC AATGCCAATG AACATCGGCA TGGATTATAA TTATGCCCTC CTGGAAGTCA 60  
 AAAAGCCCCA CAAGAGAAAA TTTATGAAGA TTGGGGTGAG CCCTCCTGCT AAGCAGCTGC 120  
 CAGGGGGCAG AATCACTTC TCTGGTTATN ACAATNNCCN NCCAGGCAAT TTGGTGTATC 180  
 GCTTCTGTGA CGTCAAAGAC GAGACCTATG ACTTGCTCTA CCAGCAATGC GATGCCCAGC 240  
 CAGGGGCCAG CGGGTCTGGG GTCTATGTGA GGATGTGGAA GAGACAGCAG CAGAAAGTGGG 300  
 AGCGAAAAAN 309

配列番号 : 3167

配列の長さ : 309

配列の型 : 核酸

トポロジー : 直鎖状

クローン名 : HUMGS03738

配列 :

GATCTTGATA TGTTTTAACA TTATCATGGC AGGGAAATAT ATAAAGAAGA AAAATATTTT 60  
 NACATTAAAC CTTTCTAAA ANTTGTAAAT AGAAAAATAA TTTGGTTTTT NATCAAGANC 120  
 AACACTTATC GTTATGTATT GTGTTAGTTA TATTGCCAGT CTGTTGCGAC TGAATCAAAA 180  
 AGTTAAATGT TGCCACTGCT GANGATGATT ATGNGCATCG CANACTTTGT TTCTGNCCCA 240  
 TTTTGGCAGT TTNATATAC TCCNTTAAGA TGTTGAATGT TACAGGTTAN TAAAGTTAAT 300  
 ACCTTTAAA 309

配列番号 : 3168

PSN\_T22166 [GENESEQ-N] Human gene signature HUMGS03737

;ID T22166 standard; cDNA to mRNA; 309 BP.  
;AC T22166;  
;DT 08-AUG-1996 (first entry)  
;DE Human gene signature HUMGS03737.  
;KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;  
;KW human; cloning; mapping; non-biased library; diagnosis; detection;  
;KW cell typing; abnormal cell function; ss.  
;OS Homo sapiens.  
;PN WO9514772-A1.  
;PD 01-JUN-1995.  
;PF 11-NOV-1994; J01916.  
;PR 12-NOV-1993; JP-355504.  
;PA (MATS/) MATSUBARA K.  
;PA (OKUB/) OKUBO K.  
;PI Matsubara K, Okubo K;  
;DR WPI; 95-206931/27.  
;PT Identifying gene signatures in 3'-directed human cDNA library - e.g.  
;PT for diagnosis of abnormal cell function, by preparing cDNA that  
;PT reflects relative abundance of corresp. mRNA in specific human  
;PT tissues  
;PS Claim 1; Page 1060; 2245pp; Japanese.  
;CC A single-stranded DNA (or its complementary strand or the corresp.  
;CC double-stranded DNA) which comprises one of the 7837 "GS" sequences  
;CC given in T19001-T26837 and which is able to hybridise to part of  
;CC human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)  
;CC sequences were obtained from 3'-directed cDNA libraries prepared  
;CC from various human tissues; synthesis of cDNA was initiated from the  
;CC 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-  
;CC untranslated sequence is unique to a particular mRNA species, almost  
;CC all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library  
;CC is constructed so as to reflect accurately the relative abundance of  
;CC different mRNAs in the particular tissue from which it was derived.  
;CC The appearance frequency of a given GS in a cDNA library can be  
;CC determined (esp. using primers and probes derived from the GS  
;CC sequences) as a means of diagnosing abnormal cell function or for  
;CC recognising different cell types.